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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/673,290	-	09/30/2003	Hiroyuki Fujikawa	14-019	14-019 4736	
23400	7590	08/12/2004		EXAMINER		
POSZ & B		-	SCHWARTZ, CHRISTOPHER P			
11250 ROGER BACON DRIVE SUITE 10				ART UNIT	PAPER NUMBER	
RESTON, V	VA 2019	90		3683		
				DATE MAILED: 08/12/200	4	

Please find below and/or attached an Office communication concerning this application or proceeding.

		9				
	Application No.	Applicant(s)				
	10/673,290	FUJIKAWA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Christopher P. Schwartz	3683				
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1: after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be ting within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	nely filed /s will be considered timely. If the mailing date of this communication. ID (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	wn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.	a alastia a sa suissa sa sa					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examine						
10) ☐ The drawing(s) filed on is/are: a) ☐ acc						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the E>	caminer. Note the attached Office	e Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) ☑ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority document	• •					
3. Copies of the certified copies of the prio	•	ed in this National Stage				
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
oce the attached detailed Office action for a list	of the certified copies not receive					
		My Bush				
Attachment(s)		() My scriper				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413) \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
2) DNotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date <u>3</u> .	5) Notice of Informal F	(PTO-413) atePatent Application (PTO-152) att.				

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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 1-3 rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 2000120738 ('738) in view of Japanese patent 9112606 ('606).

Regarding claim 1 Japanese publication '738 shows a disc brake pad having two sections, as discussed in the abstract and as shown in the several embodiments.

'738 however lacks a discussion of the respective Young's modulus and the friction coefficients of each.

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Japanese patent '606 shows a brake pad comprised of substantially two friction materials 3,4 having differing friction coefficients and differing modulus' of elasticities (i.e. young's modulus).

One having ordinary skill in the art at the time of the invention would have found it obvious to have modified the pad of '738 such that the two pad portions shown therein exhibit differing friction coefficients and modulus' of elasticity, as taught by '606, and as claimed by applicants, simply dependent upon the wear and braking characteristics desired from the vehicle brakes.

Regarding claims 2,3 to have made one of the friction members protrude outward more than the other in '738, as modified, and to have varied the frictional coefficients of the respective portions of the brake pads by the claimed amount would have been obvious dependent upon the braking and/or wear characteristics desired. Note that '606 suggests protruding one of the brake pads outward more than the others in the several embodiments.

4. Claims 4-8 rejected under 35 U.S.C. 103(a) as being unpatentable over JP '738 in view of JP '606 as applied to claim 3 above, and further in view of Itsuaki.

Regarding claims 4-7,8 it is well known in the art to make singular parts plural and vice-versa as a matter of routine engineering choice, or to make replacement of certain parts easier.

Itsuaki is relied upon to provide a general teaching of this idea at 5a and 5b.

One having ordinary skill in the art at the time of the invention would have found it obvious to have provided a slit between the different pad portions of '738 as modified

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above and dimensioned as claimed as generally taught by Itsuaki to make their replacement easier. The slit could also serve as a cooling means.

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art cited has been cited for showing other types of pad designs.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher P. Schwartz whose telephone number is 703-308-0576. The examiner can normally be reached on M-F 9:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jack W. Lavinder can be reached on 703-308-3421. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Cps 7/30/04